NEW!

IMPACT PRO MULTI-GAS DETECTORS

Cat. No. 2302B20009UE

These detectors are safe, small, lightweight, battery-powered and rugged - ideal for areas where exposure to toxic or flammable gases pose a risk. You benefit from one touch calibration, cartridge replacement in less than one minute, and IP67 rated durable housing that protects against dust/water ingress.

Our unique cartridge design (with up to 4 sensors in a self-contained plug-in cartridge) allows you to change all sensors at once - for about the cost of a typical single sensor. Options include advanced infrared sensors, Safelink confined-space instrument-to-instrument communication, unpowered low-flow-rate Enforcer gas calibration/bump test station, rechargeable battery and more.

IMPACT PRO KIT

Cat. No. 2302B1010

Kit includes Impact/Enforcer case with Impact Pro, multi-gas (O2, CH4, CO, H2S). One year sensor cartridge, Enforcer calibration device, charger kit with data/charging cradle, power supply and rechargeable batteries, USB to RS232 data cable, and 10 meter sample tube.

Calibration gas purchased separately.

Cat. No. 2302D0833

Gas Cylinder

Calibration gas purchased separately.

ENFORCER

Cat. No. 2302B0650

The Enforcer calibrates detectors fitted with oxygen, flammable, carbon monoxide, and hydrogen sulfide sensors in less than two minutes - and can also perform low-level oxygen tests. Volumes and flow rates are minimized to allow approximately 200 calibrations per cylinder of gas, making calibration as low in cost as a 'Bump' test.

REPLACEMENT CARTRIDGE

Cat. No. 2302BCD40FCHO

These pre-calibrated cartridges use high specification flammable, oxygen and toxic sensors to ensure that safe, accurate and reliable measurements are always made.

Cartridges are pre-calibrated and ready-to-go. They can be replaced in the field. Full instructions are included with each cartridge. Cartridges come with a 12 month warranty.

Cat. No. 2302BCD42FCHO

Cartridge w/24 month warranty.

GROUND RESISTANCE TESTER

TEST GROUNDS OF:

- ***UTILITY POLES***
- ***ANTENNAS***
- ***TELEPHONE***
- ***CABLE TV***
- ***PORTABLE GENERATORS***
- ***DISTRIBUTION TRANSFORMERS***
- ***SERVICE ENTRANCES***

The Megger Direct-Reading Ground Tester features three-terminal operation for fall-of-potential earth resistance measurements or it can be used for two-terminal tests to a ground reference. Range changing, multipliers or calibrating adjustments are not necessary.

Specifications
Range: .5 to 500 ohms
Accuracy: +/-2% of full scale deflection to 100 Ohms @15 to 35°C and Probe Resistance up to 5000 Ohms each probe
Stray earth Current Effect: DC-No effect. AC-No effect up to 2V

Cat. No.	Description
250260	Megger Direct-Reading Earth Tester
250560	Accessory Kit (Consists of: Test Lead Set, One Each 10'-30'-50' Leads, 2-12" Ground Rods, Plug-in Calibration Standard)
217719	Hard Vinyl Case; Holds Meter & Acces.

QUATTRO GAS DETECTOR

Cat. No. 2302BCD40FCHO

This 4 gas diffusion monitor continuously self checks toxic sensors, circuits, battery, memory and alerts user as faults occur. Optional attachable pumps available – motorized or hand aspirator. Dual reservoir toxic sensors are superior in extreme hot/ cold, dry/humid conditions.

CLAMP-ON GROUND RESISTANCE TESTER

Cat. No. 3731

- Simple and fast clamp-on operation no leads, no auxiliary rods or spacing requirements
- Direct reading of ground resistance from 0.1Ý to 1200Ý
- Direct reading of continuity and ground loop resistance
- Direct reading of ground leakage or phase current from 1mA to 30Arms
- Jaw design with large 1.25" window accommodates up to 1000MCM cables
- Memory and alarm functions

Includes calibration loop, battery and user manual in hard carrying case.

DIGITAL GROUND RESISTANCE TESTER KIT

Cat. No. 4630K

The Digital Ground Resistance Tester performs ground resistance and soil resistivity tests. The direct reading testers measures from 0 to 2000Ω, and is auto-ranging, so it automatically seeks out the optimum measurement range. Tester is rugged, easy-to-use and is ideal for maintenance crews performing numerous tests. It exceeds mechanical and safety specifications for shock, vibration and drop tests in IEC standards. It is designed to reject high levels of interference, so it can be used under difficult conditions such as high stray currents that normally affect accuracy. Powered by 9.6V, 3.5 Ah NiMH rechargeable batteries.

- Measures soil resistivity (4-Point)
- Measures ground resistance (2- and 3-Point) Fall-of- Potential method
- Step voltage tests and touch potential measurements
- Auto-Ranging
- Designed to reject high levels of noise and interference
- AC powered with rechargeable NiMH batteries

HAND-CRANKED MEGOHMMETER

Cat. No. 1250N

- True Megohmmeter®
- Test voltages of 250V, 500V and 1000V
- Insulation measurements to 200M and 5000M ohm
- LED indicates constant voltage output and proper cranked speed
- Extra rugged cast aluminum case; O-ring sealed against rain, water and dust with aluminum lid

5000V DIGITAL/ANALOG MEGOHMMETER

Cat. No. 5060

- True Megohmmeter®
- Test voltage combination of 500V, 1000V, 2500V and 5000V
- Insulation measurements from 1k ohm to 10T ohm
- Adjustable and programmable test voltage (50 to 5000V)
- Automatic calculation of DAR, PI and DD ratios, Capacitance and Leakage Current
- Display resistance, test voltage and run time
- Programmable test run times and PI ratio times
- Automatic test inhibition if live sample (>25)
- Automatic discharge and display of discharge voltage

FALL-OF-POTENTIAL GROUND RESISTANCE TESTER KIT

Cat. No. 3640K

- Large LCD digital display
- Designed to reject high levels of noise & interference
- Auto-Ranging
- Battery powered
- Performs Fall-of-Potential method
- Measure ground resistance (2- and 3-Point)

Includes meter, one 16 ft lead, two 150 ft leads on spools with wind-up handles, two auxiliary ground electrodes, soft carrying case, batteries and user manual.

HALO AMMETERS

Halo I with hook style head

Halo I is ideally suited for taking spot-load studies at transformers or at any mid-span location, as well as phase balance studies on primary or secondary lines. Halo I is a true RMS reading instrument. Its load-latching circuitry continually latches and locks on to peak system currents. It will display and hold the reading until the display is reset.

Halo II with fork style head

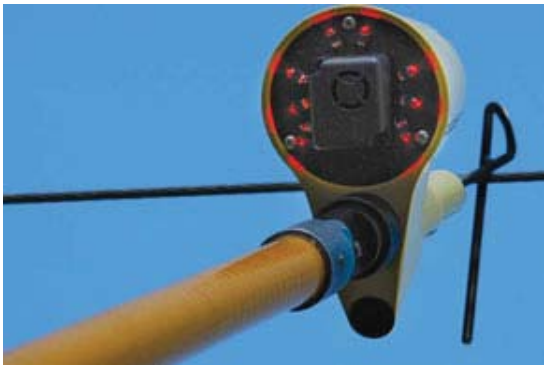
Halo II is suited for the same type of operatinos as the Halo I. It is also a true RMS reading ammeter featuring a decimal point display through 199.9 amps and is auto ranging. It offers the enhancement of having a selectable "peak-hold" or "track" mode. The "peak-hold" operates the same as Halo I, while the "track" allows you to view continuous changes on the display.

Cat. No.	Description
8280	**Halo I** - high voltage true RMS digital ammeter, 0-2000 amps AC with **hook style** sensing head
8281	**Halo I** - high voltage true RMS digital ammeter, 0-2000 amps AC with **fork style** sensing head
9390	**Halo II** - high voltage true RMS digital ammeter, 0-2000 amps AC with peak-hold and tracking mode and **hook style** sensing head
9391	**Halo II** - high voltage true RMS digital ammeter, 0-2000 amps AC with peak-hold and tracking mode and **fork style** sensing head
HC-5	Aluminum poly-foam carrying case for HALO and a 2' hotstick or extension hotstick

VOLTAGE BREAK INDICATOR

Cat. No. VBI-15

This direct contact Voltage Break Indicator has an audible and visual alarm to indicate the absence of voltage, with an operating range from 7.2kV to 20kV (line to ground). The unit consists of an array of lights and an audible alarm to give the user a quick and clear indication that the overhead line has dropped below the threshold value of 2.5kV. The indicator is activated when voltage levels drop below 2.5kV line to ground. Water resistant for inclement weather use.



V-WATCH

Cat. No. CM-1550

The V-Watch personal voltage detector detects the presence of electric fields surrounding electrical equipment. This lightweight device is compactly designed to be worn on the outside of clothing or protective gear. Features audible and visual alarms that increase in frequency as you approach energized equipment. 9V alkaline battery is replaceable in the field. V-Watch Pro features a mute button.

Cat. No.	Description
VW-20	V-Watch - Level 2 Sensitivity
VWP-20	V-Watch Pro with Mute Button - Lvl 2 Sensitivity
VW-20-K	VW-20, Lanyard, and Zippered Carrying Bag
VWP-20-K	VWP-20, Lanyard, and Zippered Carrying Bag

*All V-Watch units include carrying pouch.
*Other sensitivity levels are available.

CLAMP-ON MULTIMETER

Cat. No. CM-850

This meter, with it's digital LED display, reads1-600AC Volts, 0.1-600 Amps, 0-2k Ohms. Meter measures true RMS for accuracy when harmonics are present. Easy to read backlit display for use in low light conditions. Jaw opening: 1.34" Accessories included: (1) 9V battery, test leads, carrying case.

RMS CLAMP METER

Cat. No. CM-1550

This meter offers true RMS for the most accurate measurements. It features a dual hall sensor for accuracy, backlit display, peak & data hold, and analog bar graph to view quick changes. Jaw opening: 2". Accesories include (1) 9V battery, test leads, & carrying case.
Measuring Capabilities:
Amperage: 400, 1000A
Voltage: AC V: 400, 750V
DC V: 400, 1000V
Resistance: 400O
Frequency: .400kHz

DIGITAL VOLTAGE INDICATOR

Cat. No. DVI-100

The Digital Voltage Indicator is designed to read the voltage on a conductor up to 99kV line-to-ground. Features a large LED readout which is easy-to-read on the end of a long hotstick. When brought into direct contact with a conductor, the display indicates the line-to-ground voltage level. Powered by a 9V alkaline battery.

VOLTAGE TESTER

Cat. No. 14460
Voltage Scales:
AC - 120v, 240v, 480v, 600v
DC - 120v, 240v, 600v
Storage Case - Cat. No. 14480

0-2KV GENERAL PURPOSE DIGITAL VOLTMETER

Cat. No. RCDC1000U

This ruggedly built, general purpose, 0 to 2kV DC digital voltmeter that can be used in a variety of applications, including a wide range of commercial and industrial categories.

This *direct contact* meter is designed to confirm the status of electrical systems. The meter can be used with higher currents than hand-held models and for general outdoor use. Both the meter probe and secondary probe have threaded end fittings.

A 30-foot interconnecting cable is included along with three adapters:

- Hook Adapter,
- Straight Adapter
- Magnetic Track Adapter.
- LCD display has a **backlight** for easy reading.

NON-CONTACT, A/V HIGH VOLTAGE DETECTOR

- BUILT IN SELF-TEST
- AUDIBLE AND VISUAL INDICTORS

4744K DETECTOR KIT W/ 4315 CASE & SHOT GUN ADAPTER

Self-Testing Voltage Detectors allow testing to be continuous and automatic. An intermittent flash and beep confirms the detector is functioning properly.

These testers may be used with rubber insulating gloves or hot sticks. Testers indicate voltage with an extra bright LED light and audible signal.

Cat. No.	Settings phase to phase
4544	Off/240V/4.2kV/15k/25kV/35kV/69kV/115kV/230kV
4644	Off/240V/4.2kV/35kV/69kV/115kV/230kV/345kV500kV
4744	**Off/Test-240V/Battery/URD:15kV/25kV35kV Overhead: 4.2kV/15kV/25kV/35kV/46kV/69kV**
4315	Molded Case
Add suffix "K" for KIT which includes Case and Universal Adapter	

Cat. No. 21600
Replacement handle
Cat. No. 20872
Replacement battery strap

UNIVERSAL ADAPTER

Cat. No. M1867
Universal adapter for shotguns

AUTO-RANGING VOLTAGE INDICATOR FOR 600V TO 69KV

THIS "SMART" INSTRUMENT MAKES OVERHEAD AND UNDERGROUND HOT-LINE TESTING EASIER THAN EVER!

Features:

- ***VISUAL & AUDIBLE INDICATORS***
- ***READING "HOLD"***
- ***CONFIRMING SELF TEST***
- ***LOW BATTERY INDICATOR W/ SLEEP MODE***

The "ARVI's" state-of-the-art electronics eliminates the need for a voltage selector switch. A bright red light and audible tone indicate the phase-to-phase voltage class automatically! The meter begins detecting at 480 Volts and displays and holds one of these voltage classes: 600V, 4kV, 15kV, 35kV or 69kV.

Cat. No.	Description
C403-3374	Auto-Ranging Voltage Indicator
Unit includes hard shell padded case, shepherd hook probe & instructions	
T403-0857	Bushing Adapter for 15, 25, 35kV *(f/ undrgd apl)*
T403-0856	Elbow Adapter for 15, 25, 35kV (f/ undrgd apl)
C403-3409	Voltage Indicator Tester (to test meter)
T403-3418	Kit Includes all above

T403-0857

T403-0856

C403-3409

AUTO-RANGING VOLTAGE INDICATOR FOR 69KV TO 500KV

Cat. No. C403-3375

This automatic ranging state of the art meter functions quickly displays the approximate line-to-line voltage class. it provides an easy, reliable means for the operator to determine if a line is:

1- DE-ENERGIZED

2- CARRYING LESS THAN NORMAL SYSTEM VOLTAGE FROM ANY SOURCE OR INDUCED CHARGE FROM AN ADJACENT LIVE CIRCUIT

3- ENERGIZED AT FULL SYSTEM VOLTAGE

An audible signal begins as a slow beeping that becomes faster as the final reading is displayed. When not in use, the unit's energy-saving sleep mode automatically conserves the battery.

Includes the tester, shepherd hook probe, instruction manual and hard shell padded case.

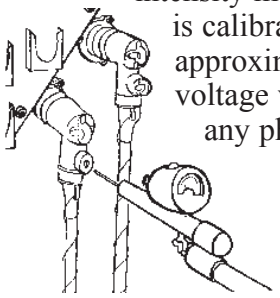
If you can't find it...

call HI-LINE!

MULTI-RANGE VOLTAGE DETECTORS

For Overhead Systems to 600kv and URD Elbow Test Points*

To confirm that a line is de-energized prior to performing maintenance on it, the Multi-Range Voltage Detector (MRVD) presents field practicality. Actually a field intensity meter, the MRVD is calibrated to read approximate line-to-line voltage when connected to any phase conductor.



Cat.No.	Description	Scales	Wgt
C403-0979*	Overhead and URD	1-40kV	5.5 lbs
C403-1029	Overhead Model	16-161kV	
C403-1140	Overhead Model	69-600 kV	

All include plastic case
Includes straight probe and "TP" setting on selector switch for URD elbow testing.

"LAST CHECK" TRANSFORMER TESTER

Cat. No. 6793

This easy to use, hand held, lightweight tester provides a safe and reliable method of verifying that distribution transformers, up to 3300 KVA, do not have shorted or open windings prior to energizing. Detect failures in transformers before loading and transporting to the job site. Eliminate blowing cutout fuses to determine condition of the transformer. This tester reduces potential hazards of oil spills and costly clean up caused by energizing shorted transformers.

TESTER ACCESSORIES

T403-0428

T403-0857

T403-0856

Cat. No.	Description
T403-0602	Elbow Adapter for 8.3kV and 15kV only
T403-0428	Bushing Adapter for 8.3kV and 15kV only
T403-0856	Elbow Adapter for 15, 25, and 35kV
T403-0857	Bushing Adapter for 15, 25, and 35kV
H1876-6P	Pigtail Hook Probe
H1876-6S	Shepherd Hook Probe
P403-2422P	Straight Probe

ENERGIZED CABLE SENSOR

Cat. No. C403-0803

This sensor allows the lineman to readily determine whether a URD cable is energized or de-energized. The sensor consists of an amplifier which is designed to give a meter reading when the small AC voltage between the semi-conductive sheath and the concentric neutral of an energized URD cable is applied to the test probe.

Sensor may be used to check for energized condition on concentric neutral cable below an elbow without test points. It can also be used at cable mid-span. Hose clamps bridge all strands of the concentric neutral at the test location. Sensor's neutral lead clips to one of the hose clamps. Tip on probe lead contacts only the semi-conductive cable sheath to test for voltage presence. A self-test contact point is incorporated to that battery condition can be verified prior to use. Includes: Molded case, test leads hose clamps, batteries and instructions.

WIDE RANGE VOLTAGE DETECTORS & VOLTMETERS

These VOLTAGE DETECTORS & VOLTMETERS consist of one high resistance unit connected in series with an ammeter calibrated to read approximate voltage. Voltage detectors create an incomplete electrical circuit because the single probe physically makes contact with one conductor potential and the live line tool attachment floating at a variable potential.

COMBINATION PROXIMITY & DIRECT CONTACT ANALOG VOLTAGE DETECTOR

Cat. No. VDA040PU ***Dual application design!***

This "utility tough" highly accurate detector is a **combination proximity/direct contact** voltage detector on overhead and underground systems. It can detect voltage from the ground on bare overhead lines when hand held. It can also test capacitive test points and secondary voltage on bare or insulated cables. The detector indicates line-to-ground values for nominal or induced voltages. Storage case included.

The 5-position selector switch is calibrated for height above ground to compensate for a capacitive coupling effect.

- URD - Detects voltage on underground systems
- OH - Detects overhead voltage 0kV - 10kV
- X4 - Detects overhead voltage 11kV - 40kV
- T - Tests and verifies meter function
- P - Indicates voltage in proximity to line, it also indicates voltage in direct contact on capacitive test points and secondary voltages.

For your safety, the detectors include overload protection up to 66.5kV (115kV phase-to-phase) and are completely shielded to minimize stray field interference.

Optional adapters are available for underground use up to 35kV.

**Add a suffix "S" to include Bushing Adapters*

Cat. No. VDAL40PU

Same as above with back light.

Cat. No. VDA040CU

Same as VDA040PU above but without proximity function.

ANALOG VOLTAGE DETECTOR

These detectors offer the widest and highest voltage range available in a single voltage detector. They are designed for use on overhead and underground systems and have a passive meter reading function.

The easy-to-read analog scale is a dual linear/ logarithmic scale for better resolution on distribution systems. These detectors indicate approximate nominal or induced voltage in line-to-ground values. The easy-to-use detector requires **no voltage scale selector switch or multipliers**. It is water resistant and has a strong construction designed to withstand wear. Includes carrying case with interior cushioning. Hold and backlight functions are standard on VDAH300 and VDAH450 models only.

Wide Range Analog Voltage Detectors

VDA0300/VDAH300 - .4kV - 300kV line-ground (4kV - 500kV phase-phase)

VDA0450/VDAH450 - .4kV - 450kV line-ground (4kV - 765kV phase-phase)

Optional adapters are available for underground use up to 35kV.

Cat. No.	Description	Wgt
VDAH450U	2.4Kv-450Kv w/ “Hold” & Backlight	8 lbs.
VDA450U	2.4Kv-450Kv Voltage Detector	8 lbs.
VDAH300U	2.4Kv-300Kv w “Hold” & Backlight	8 lbs.
VDA0300U	2.4Kv-300Kv Voltage Detector	8 lbs.
Add a suffix "S" to include 2 bushing adapters		

PHASING VOLTMETERS & TESTERS

PHASING VOLTMETERS consist of two high resistance units physically connected in series with an ammeter, calibrated to read voltage. The electrical circuit is completed by physically making contact between Phase-to-Phase or Phase-to-Ground.

MULTI-PURPOSE "DIGITAL" PHASING METER

The **All-in-one** PD Series All-Purpose Utility Meters are phasing voltmeters designed to replace numerous other meters that feature a single range and/or perform a single function.

Use as:
- Digital Voltmeter
- Capacitive Test Point Phasing Meter
- Regulator Neutral Detector
- Commercial/Industrial Meter
- Conventional Phasing Voltmeter

These digital, "utility tough" All-Purpose Utility Phasing Voltmeter are designed for measuring voltage and phasing on overhead and underground systems, capacitive test points and 3-phase secondaries. They have three ranges for use on system voltages, ranging from 120V to 46kV, phase-to-phase. Each model consists of a large (3/4") LCD digital meter with backlight, a 5-position selector switch, and an interconnect cable and a second probe to complete the circuit.

Completely shielded, these voltmeters only read contacted test points, with no stray field indications. Unique input circuitry measures and reconciles the undesirable charging currents associated with other phasing meters, providing the most accurate (+/- 1%) phasing voltmeter available. Will test AC or DC.

Cat. No.	Description
PD25U	Digital Phasing Volt Meter 0-25kV Phase to Phase
PD50U	Digital Phasing Volt Meter 0-50kV Phase to Phase
PA100P	100V DC Power Supply to test meter
*Add a suffix "S" to include Bushing Adapters	

PD25US SHOWN

*Includes **hard, padded case** and 3kV power supply.*

PHASING RANGER I

Cat. No. PR1COMP

The Phasing Ranger 1 is a revolutionary Phase Identification device. No other phase identification device is easier to use when it comes to determining actual phase relationship in the field. All readings are Real Time readings, there are no calculations to be made or data to be transferred from one location to another.

This Smart Grid Technology requires a One Time set-up procedure and then allows the user a permanent and reliable means of phasing, phase ID, mapping and tagging or general troubleshooting.

The complete Phasing Ranger 1 kit comes complete with a Send Unit, Receive Unit, Meter Probe, Auto Answering Device, GPS receiver, Trac-Fone, all of the necessary cables, one straight probe (81280LPM), one hook probe (81280LHM), instruction manual and two durable padded carrying cases (PD800B).

Cat. No. PR1RCV

The Phasing Ranger I Receive Unit only

Cat. No. PR1SEND

The Phasing Ranger I Send Unit only

"CORDLESS" MULTI-PURPOSE PHASING TESTER

CORDLESS!
70 FEET RANGE

Cat. No. PD800WU

This **Cordless** Phasing Tester () accurately and easily operates in multiple applications including:

- *CORDLESS PHASING; 208V - 800KV*
- *VOLTAGE DETECTION; 4KV - 69KV*
- *PHASE SEQUENCING*
- *PHASE ANGLE INDICATION*

You will only need this one kit for three-phase secondary systems, capacitive test points, URD systems and overhead and transmission systems!

This unique tester operates like a conventional phasing tester, but does not require an interconnecting cable or extension resistors.

Each kit contains a Reference Probe (Transmitter) and a Meter Probe (Receiver) & universal attachment. Probes are "utility tough" and are completely shielded to minimize stray field interference. *Includes padded case.*

Both the Reference Probe and the Meter Probe have a five-position selector switch that controls different operating modes.

- **Off** - *Power off for storage*
- **Deg** - *For measurements of the phase angle between the two probes, 208V - 800kV*
- **URD** - *For phasing and voltage detection on Underground Rural Distribution systems from 4kV - 35kV*
- **OH** - *For phasing and voltage detection on overhead systems 4kV - 69kV*
- **Test** - *Tests basic meter function and displays the condition of the battery*

The Meter Probe features a large digital display with backlight and easy-to-read, high intensity color-coded indicator lights. Readings are displayed in voltage (kV) or degrees. The Reference Probe features a single high intensity indicator light for high visibility.

PHASING TESTERS for Distribution Circuits

This single range tester easily determines phase relationships and approximate voltage, line-to-line or line-to-ground.

Each tester consists of two fiberglass poles with end fittings threaded for interchangeable probes. The probe fittings couple with a high-impedance component encased in each probe. To complete the test circuit, a 22' length of insulated flexible cable stores on a reel affixed to one pole and connects to the voltmeter on the other pole.

Simple to operate, the tester poles first attach to Epoxiglas Universal Poles of proper length for the voltage being worked. Then the probes can be brought into contact with the conductors appropriate for the meter to read phase-to-phase or phase-to-ground voltage.

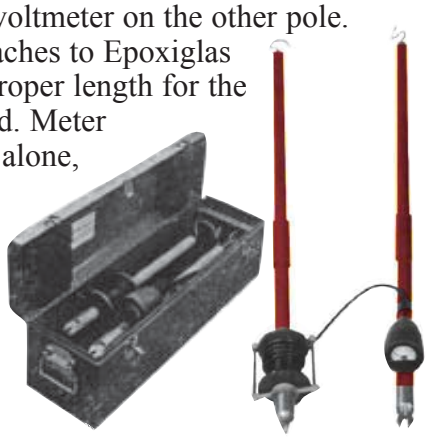
Extension Resistors can be used to extend any 16kV Phasing Tester for 48kV or 80kV application.

Cat. No.	Description
H1876	16kV Tester Kit*
H1876-1	16kV Tester, Hook Probes, Case, and Manual
T403-2261	25kV Tester Kit*
H1876-7	40kV Tester, Hook Probes, Case, and Manual
H1876-4	Pr. 25" Extension Resistors for up to 48kV
H1876-2	Pr. 43" Extension Resistors for up to 80kV
P624-2	Bag for 48kV resistors
P624-4	Bag for 80kV resistors

***Kits include two (H1760-1) 1-1/4"x 6' Epoxiglas universal poles (not shown), storage bag, tester, hook probes, case, & instructions**

PHASE ROTATION TESTER

To determine the correct phase-rotation relationship, this portable instrument features construction similar to Phasing Tester H1876-1. An additional grounding circuit on the Phase Rotation Tester sets it apart for the specific purpose named. The tester consists of two fiberglass poles with end fittings threaded for interchangeable probes. The probe fittings couple with a high-impedance component encased in each pole. A 22' length of insulated cable stores on a reel affixed to one pole and connects to the voltmeter on the other pole.



The basic tool attaches to Epoxiglas Universal Poles of proper length for the voltage being worked. Meter displays up to 16kV alone, or can read circuits through 69kV with the head-on Extension Resistors as pictured to the right.

Cat. No.	Description
H1879	Phase Rotation Tester, 16kV, with Plastic Case
H1876-4	Pr. 25" Extension Resistors for up to 48kV
H1876-2	Pr. 43" Extension resistors for up to 80kV
P624-2	Bag for 48kV resistors
P624-4	Bag for 80kV resistors

DC HI-POT URD TEST ADAPTER

For quick, reliable fault detection on underground cables, two units are available for phase-to-phase system voltages up to 16kV and 35kV. For use with H1876-1 Phasing Tester and Elbow or Bushing Adapters.

- ***TEST NEW CABLE BEFORE INITIAL ENERGIZING***
- ***TEST REPAIRED CABLE BEFORE RE-ENERGIZING***
- ***TEST SUSPECT CABLE SPAN FOR FAULTS***

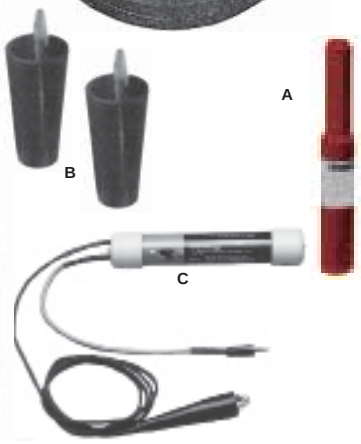
Cat. No.	Description
C403-1762	16kV Hi-Pot Adapter*
C403-1763	35kV Hi-Pot Adapter*

***Maximum phase-to-phase system voltage**

COMPLETE DISTRIBUTION PHASING TESTER KIT for Overhead and Underground Systems Dual Range: 5kV & 16kV Scales

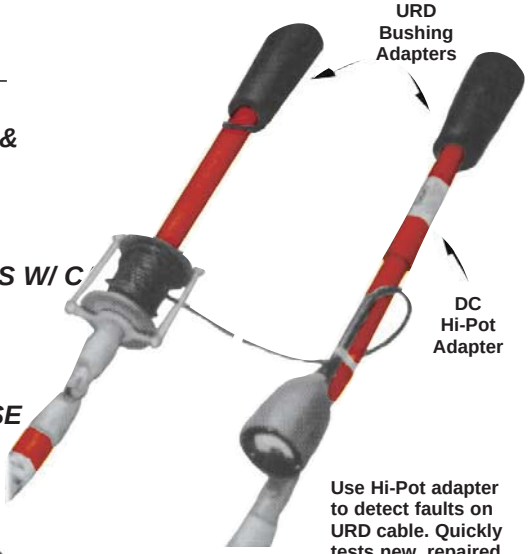
Cat. No. T403-2557

This kit is designed to allow the user to identify phases, read line-to-line or line-to-ground voltage, and detect URD cable-faults. Most of the individual components which make up this kit can be found on the preceding pages.



Complete kit consists of the following components:

- ***DUAL RANGE TESTER WITH 5KV & 16KV SCALES***
- ***SHEPHERD HOOK PROBE***
- ***PIGTAIL HOOK PROBE***
- ***TWO 1.25" X 6' EPOXIGLAS POLES W/ C***
- ***16KV HIGH-POT ADAPTER***
- ***TWO URD BUSHING ADAPTERS***
- ***PHASING VOLTMETER TESTER***
- ***PADDED PLASTIC STORAGE CASE***



Use Hi-Pot adapter to detect faults on URD cable. Quickly tests new, repaired, or suspect spans.

Phasing Voltmeter Tester shown with leads attached to test points on meter. Read out is displayed on meter dial for easy field testing prior to use.

	Cat. No.	Description
A	C403-1762	16kV Hi-Pot Adapter
B	T403-0857	URD Bushing Adapter (2 needed)
C	C403-0838	Phasing Voltmeter Tester

TESTER FOR PHASING METERS

Cat. No. C403-0838

The phasing voltmeter tester allows line personnel to determine, in the field, the operating condition of the Phase testers shown on the previous page.

The tester uses each instrument's own meter to display its operating condition. The tester plugs into the jack on the instrument and meter readings are noted when the tester's clip is contacted to each of the instrument's terminals. Leads and battery included.

DUAL PURPOSE, ANALOG PHASING VOLTMETER & VOLTAGE DETECTOR

These "utility tough", ***dual application*** meters are designed to be used as either a Voltage Detector or a Phasing Voltmeter.

They have a large, easy-to-read analog meter, a five position selector switch, 3kV self-test device, interconnect cable and a second probe to complete the circuit. Each probe is completely shielded to minimize stray field indications.

The five position switch control consists of:

- C - Indicates voltage on capacitive test points
- CP - Phases using capacitive test points
- L - Detects overhead and underground voltage
- LP - Phasing on overhead lines
- BT - Battery Test

Adapters are available for underground use up to 35kV. *Padded case included.*

Cat. No. 81280U - (300V - 25kV)

Cat. No. 83280U - (300V - 35kV)

*Add a suffix "S" to include Bushing Adapters for underground and overhead use.

ROTATION TYPE PHASE SEQUENCE INDICATORS

Cat. No. 44030

This rugged and reliable instrument has a 25 - 60 frequency range and a voltage range of 60V - 600V

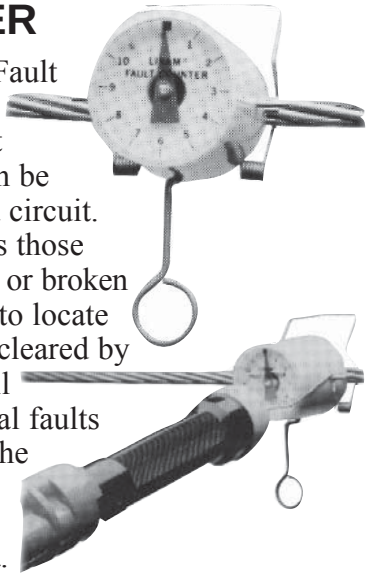
Cat. No. 44040 - Carrying Case

PHASE ROTATION TESTER

Cat. No. PMR-1

Three functions in one unit: Phase Rotation, Motor Rotation, and Open Phase Indication. Unit incorporates fused phase rotation inputs. Battery operated (motor rotation).

FAULT COUNTER



The Chance Type FC Fault Counter can aid in locating intermittent fault transients. Such faults can be common on the overhead circuit. Intermittent faults such as those caused by a contaminated or broken insulator can be difficult to locate because they are usually cleared by circuit interruption. It will display up to 10 individual faults and is easily reset using the Reset Tool attached to a Grip-All clampstick. Cable size: .25 - 1.0 in. dia.

Cat. No.	Trip Current	Cat. No.	Trip Current
FC0100	100 amps	FC0600	600 amps
FC0200	200 amps	FC0800	800 amps
FC0300	300 amps	FC1000	1000 amps
FC0400	450 amps	FCRT	Reset Tool

WET/DRY HOT STICK TESTER

Cat. No. C403-3178

Simple to operate, this 115V portable unit makes easy work of testing insulated live-line tools. It features wet and dry modes selected by a toggle switch and follows procedures specified by ASTM, IEEE and OSHA. Its graduated meter gives precise readout of each tool's leakage current.

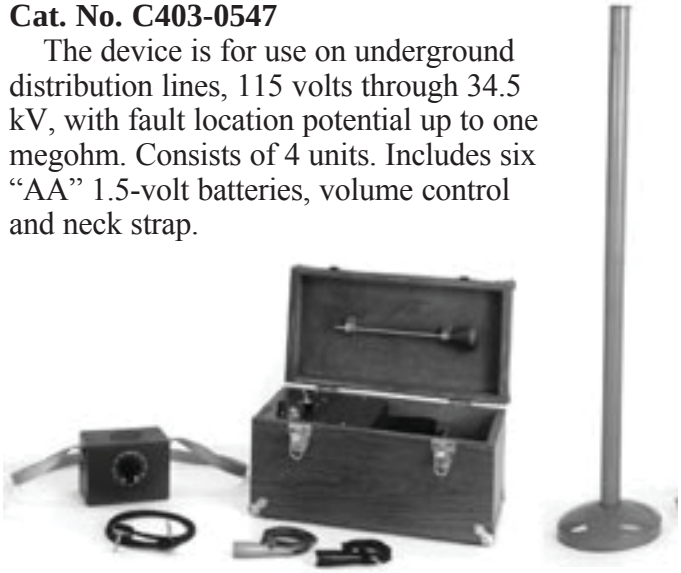
For testing any length fiberglass-reinforced plastic (FRP) hot stick up to 3 inches in diameter, the Wet/Dry Tester offers convenience for spot checks at field jobsites or periodic diagnostics in the workshop.

Will test both Wet 75kV-perfoot and Dry 100kV-per-foot in a compact, self-contained unit easily carried and operated by just one person. The tester detects leakage currents due to surface contamination, internal moisture and such internal conductive materials as carbon tracks. Weight: 20lb.

LINE FAULT LOCATOR

Cat. No. C403-0547

The device is for use on underground distribution lines, 115 volts through 34.5 kV, with fault location potential up to one megohm. Consists of 4 units. Includes six "AA" 1.5-volt batteries, volume control and neck strap.



WIRE LENGTH METER

Cat. No. WL140

This meter quickly measures reels of both stranded and solid, 24AWG to 1000MCM wire and cable up to lengths of 20,000'.

The operator selects the modes: Gauge, Aught or MCM. Then selects either Copper or Aluminum mode, attaches the alligator clips to both ends of the cable being measured and presses the "LENGTH" button to display the digital reading.

Insulation piercing probes are included enabling use without stripping insulation.

- **ACCURACY OF +/- 1%**
- **AUTO AMBIENT TEMPERATURE ADJUSTMENT**

Includes:

Alligator clip assemblies, insulation piercing assemblies, probe leads, batteries and impact resistant carrying case.

GROUND SET TESTER

Cat. No. C403-3220

This self contained tester uses micro-processor technology to provide an easy way to check the resistance in protective grounding sets used by line personnel. Powered by 120 VAC, the tester applies Direct Current across the test specimen.

From pushing a single button, the digital display shows the resistance measured in milliohms compared with a preset threshold for the size grounding cable selected. A green "pass" or red "fail" light also indicates the test result's relation to the adjustable threshold. An optional ***Elbow Adapter C403-3449*** for testing temporary grounding sets fitted with an orange-jacketed elbow is available. ***A Straight Stud Terminal T403-3159*** is also available for testing grounded-parking-stand temporary grounding sets.